

Title (en)  
Lightemitting semiconductor element

Title (de)  
Strahlungemittierendes Halbleiterbauelement

Title (fr)  
Élément semiconducteur à l'émission de lumière

Publication  
**EP 1605561 B1 20140101 (DE)**

Application  
**EP 05000425 A 20050111**

Priority  
DE 102004004781 A 20040130

Abstract (en)  
[origin: DE102004004781A1] The device has a semiconductor body (3) with a first active zone (1) and a second active zone (2) arranged after the first in the vertical direction. The first active zone is provided for generating radiation (11) of a first wavelength and the second active zone for generating a second wavelength (22). The radiation of the first wavelength is coherent and that of the second is incoherent.

IPC 8 full level  
**H01S 5/026** (2006.01); **H01L 27/15** (2006.01); **H01L 33/00** (2010.01); **H01S 3/10** (2006.01); **H01S 5/18** (2006.01); **H01S 5/183** (2006.01); **H01S 5/20** (2006.01); **H01S 5/40** (2006.01); **H01L 33/08** (2010.01)

CPC (source: EP US)  
**H01L 27/15** (2013.01 - EP US); **H01S 5/026** (2013.01 - EP US); **H01S 5/18386** (2013.01 - EP); **H01L 33/08** (2013.01 - EP US); **H01S 5/18311** (2013.01 - EP US); **H01S 2301/18** (2013.01 - EP US)

Cited by  
DE102007011804A1; US7778304B2; US7932526B2; WO2007076796A1

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**DE 102004004781 A1 20050818**; EP 1605561 A2 20051214; EP 1605561 A3 20070509; EP 1605561 B1 20140101; JP 2005217427 A 20050811; US 2005207461 A1 20050922; US 7620087 B2 20091117

DOCDB simple family (application)  
**DE 102004004781 A 20040130**; EP 05000425 A 20050111; JP 2005024374 A 20050131; US 4783305 A 20050131